



Sheet 1 of 4

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE  
  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
3220-73872SERIAL No.  
10/725,891APPLICANT  
HumphreysFILING DATE  
December 2, 2003GROUP  
1461

## U.S. PATENT DOCUMENTS

| *Examiner Initial |    | Document Number | Date       | Name           | Class | Subclass | Filing Date if Appropriate |
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| DV                | AA | US 6,255,462    | 07/03/2001 | Grose, Charles |       |          |                            |
|                   | AB |                 |            |                |       |          |                            |
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|  | AL |                 |      |         |       |          |                    |
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## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |    |   |
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| DV | AR | Bergendahl et al., "A fast Western blot procedure improved for quantitative analysis by direct fluorescence labeling of primary antibodies", <i>J. Immunol. Methods</i> , Vol. 277, 2003, pgs. 117-125                |
|    | AS | Bradford, "A rapid and sensitive method for the quantification of microgram quantities of protein utilizing the principle of protein-dye binding." <i>Anal. Biochem.</i> , Vol. 72, 1976, pgs. 248-276                |
|    | AT | Brizzard et al., "Immunoaffinity purification of FLAG epitope-tagged bacterial alkaline phosphatase using a novel monoclonal antibody and peptide elution", <i>BioTechniques</i> , Vol. 16, No. 4, 1994, pgs. 730-734 |
|    | AU | Coorsen et al., "Quantitative fempto- to attomole immunodetection of regulated secretory vesicle proteins critical to exocytosis", <i>Anal. Biochem.</i> , Vol. 307, 2002, pgs. 54-62                                 |
|    | AV | Edwards et al., "Development of a comprehensive panel of antibodies against the major xenobiotic metabolizing forms of cytochrome P450 in humans", <i>Biochem. Pharmacol.</i> , Vol. 56, 1998, pgs. 377-387           |
|    | AW | Estabrook et al., "The measurement of difference spectra: Application to the cytochromes of microsomes", <i>Methods Enzymol.</i> , Vol. 52, 1978, pgs. 212-220  |
|    | AX | Gietz et al., "Improved method for high-efficiency transformation of intact yeast-cells", <i>Nucleic Acids Res.</i> , Vol. 20, No. 6, 1992, pg. 1425  |
|    | AY | Graham-Lorence et al., "P450s: Structural similarities and functional differences.", <i>FASEB J.</i> , Vol. 10, 1996, pgs. 206-214  |
|    | AZ | Hopp et al., "A short polypeptide marker sequence useful for recombinant protein identification and purification", <i>BioTechnology</i> , Vol. 6, 1988, pgs. 1204-1210  |

Examiner

Date Considered

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| BL                       |      |         |       |          |                    |  |  |
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| DV<br>↓   | BR<br><br>BS<br><br>BT<br><br>BU<br><br>BV<br><br>BW<br><br>BX<br><br>BY<br><br>BZ | Humphreys et al., "New routes for lignin biosynthesis defined by biochemical characterization of recombinant ferulate 5-hydroxylase, a multifunctional cytochrome P450-dependent monooxygenase", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 96, 1999, pgs. 10045-10050<br><br>Laemmli et al., "Cleavage of structural proteins during the assembly of the head of bacteriophage", <i>Nature</i> , Vol. 227, 1970, pgs. 680-685<br><br>Lau et al., "Low carbon monoxide affinity allene oxide synthase is the predominant cytochrome P450 in many plant tissues", <i>Biochemistry</i> , Vol. 32, 1993, pgs. 1945-1950<br><br>Loew et al., "Electronic spectra of model oxy, carboxy P450, and carboxy heme complexes", <i>J. Am. Chem. Soc.</i> , Vol. 102, 1980, pgs. 3655-3657<br><br>Lowry et al., "Protein measurement with the Folin phenol reagent", <i>J. Biol. Chem.</i> , Vol. 193, 1951, pgs. 265-275<br><br>Mizutani et al., "Isolation of a cDNA and a genomic clone encoding cinnamate 4-hydroxylase from <i>Arabidopsis</i> and its expression manner in planta", <i>Plant Physiol.</i> , Vol. 113, 1997, pgs. 755-763<br><br>Morton et al., "Modification of the bicinchoninic acid protein assay to eliminate lipid interference in determining lipoprotein protein content", <i>Anal. Biochem.</i> , Vol. 204, 1992, 332-334<br><br>Omura et al., "The carbon monoxide-binding pigment of liver microsomes. II. Solubilization, Purification, and Properties", <i>J. Biol. Chem.</i> , Vol. 239, No. 7, 1964, pgs. 2379-2385<br><br>Peisach et al., "Optical and magnetic probes of the structure of cytochrome P-450's", <i>Drug Metab. Dispos.</i> , Vol. 1, No. 1, 1973, pgs. 45-61 |

  

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| DV<br><br><br><br><br><br><br><br><br><br>↓                             | CR<br>CS<br>CT<br>CU<br>CV<br>CW<br>CX<br>CY<br>CZ | Pierrel et al., "Catalytic properties of the plant cytochrome P450 CYP73 expressed in yeast. Substrate specificity of a cinnamate hydroxylase", <i>Eur. J. Biochem.</i> , Vol. 224, 1994, 835-844<br>Pompon et al., "Yeast expression of animal and plant P450s in optimized redox environments", <i>Methods Enzymol.</i> , Vol. 272, 1996, pgs. 51-64<br>Prickett et al., "A calcium-dependent antibody for identification and purification of recombinant proteins.", <i>Bio/Techniques</i> , Vol. 7, No. 6, 1989, pgs. 580-586<br>Ro et al., "Functional characterization and subcellular localization of poplar ( <i>Populus trichocarpa</i> X <i>Populus deltoides</i> ) cinnamate 4-hydroxylase", <i>Plant Physiol.</i> , Vol. 126, 2001, pgs. 317-329<br>Stressor et al., "Monospecific anti-peptide antibody to cytochrome P-450 2B6", <i>Drug Metab. Dispos.</i> , Vol. 27, No. 4, 1991, pgs. 517-525<br>Tobin et al., "Electrophoretic transfer of proteins from polyacrylamide gels to nitrocellulose sheets: Procedure and some applications. <i>Proc. Natl. Acad. Sci. USA.</i> , Vol. 76, No. 9, 1979, pgs. 4350-4354<br>Urban et al., "Maximizing the expression of mammalian cytochrome P-450 monooxygenase activities in yeast cells", <i>Biochimie</i> , Vol. 72, 1990, pgs. 463-472<br>Urban et al., "Cloning, yeast expression, and characterization of the coupling of two distantly related <i>Arabidopsis thaliana</i> NADPH-cytochrome P450 reductases with P450 CYP73A5", <i>J. Biol. Chem.</i> , Vol. 272, No. 31, 1997, pgs. 19176-19186<br>Urban et al., "Characterization of recombinant plant cinnamate 4-hydroxylase produced in yeast - kinetic and spectral properties of the major plant P450 of the phenylpropanoid pathway", <i>Eur. J. Biochem.</i> , Vol. 222, 1994, pgs. 843-850 |

  

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| DV<br>↓   | DR<br><br>DS<br><br>DT<br><br>DU<br><br>DV<br><br>DW<br><br>DX<br><br>DY<br><br>DZ | Werck-Reichhart et al., "Glycerol allows low-temperature phase-separation of membrane-proteins solubilized in Triton-X114 - Application to the purification of plant cytochrome-P450 and cytochrome b <sub>5</sub> ", <i>Anal. Biochem.</i> , Vol. 197, 1991, pgs. 125-131<br><br>Humphreys et al., "Immunodetection and quantification of cytochromes p450 using epitope tagging: immunological, spectroscopic, and kinetic analysis of cinnamate 4-hydroxylase", <i>J. Immunol. Methods</i> , Vol. 292, 2004, pgs. 97-107<br><br>Amersham Biosciences, "Fluorescent ECL Plus Western Blot Detection with Storm Image Analysis Systems", Application Note: Protein Labeling and Detection, 80-6443-83, 1999, pgs. p1-p4 |

  

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